CHAPTER I

INTRODUCTION

1.1. Background

In this modern era, daily activities of human is not far from use of technology. Technology developments also use in image processing. In the world of digital, image processing can be used as mean to recognize the pattern of image by rotate the object in the image with a certain angle. Rotation is moving of point position as far as a certain angle and a central point. The central point can be the Origin point (0, 0) or another point (a, b). Rotation can be done at two-dimensional figure, each one is triangle. The rotation that is possible done at triangle with an angle 1 till 360 degrees.

This program implement the rotation method combined with translation method to matching two triangles that have different position. Each length of base and the height of triangle image that will be tested and some triangle images in database will be calculated, according that program determine the highest percentage value of similarity from two triangle images.

1.2. Scope

In the making of this project will use java programming language. The scope of this project are as follows:

1. Observed object is shaped an isosceles triangle.
2. The matching process used is based on the length of base and height of triangle.

1.3. Purpose

The purpose of this project is to found the similarity based on the length of base and height between the tested images that have different position with some reference images in database.